Rail traffic is playing an increasingly important role. By 2030, up to ten million people will be traveling by rail every day in Germany alone. Demographic changes and high passenger volumes are boosting the demands on mass transit.

Mireo® is the commuter train that intelligently combines all the requirements of operators, buyers, and passengers. With Mireo, the engineers at Siemens have created an innovative platform for premium-class commuter and regional transport that is energy-efficient, flexible, available for quick delivery, and profitable.

In the spring of 2020, Siemens received an order to supply 18 Mireo trains to DB Regio AG, the local transport arm of Deutsche Bahn.

DB Regio was awarded the contract for the Lausitz network by the Verkehrsverbund Berlin-Brandenburg (VBB) on behalf of the State of Brandenburg and the Zweckverband für den Nahverkehrsraum Leipzig (ZVNL).

Mireo will be deployed as a regional train (RB) along the route Frankfurt (Oder) – Cottbus Hbf. – Falkenberg (Elster), Cottbus Hbf. – Falkenberg (Elster) and as a regional express train (RE) along the route Frankfurt (Oder) – Cottbus Hbf. – Leipzig Hbf. and Cottbus Hbf. – Senftenberg.

siemens.com/mobility
**Interior design**

Together with the attractive design, the construction of the train’s interior creates a spacious ambience coupled with comfort and safety. This is further enhanced by features such as on-board Internet, passenger information systems, and safety monitoring systems (CCTV). The cantilevered seating makes it easy and inexpensive to clean the passenger compartment.

**Energy savings**

Mireo is designed to be especially energy-efficient thanks to its lightweight, welded, integral aluminum monocoque construction. The improved aerodynamics, the energy efficiency of its components, and the intelligent on-board network management system also contribute to less resource use, lower emissions, and reduced noise.

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**Technical data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel arrangement</td>
<td>Bo’2’2’Bo’</td>
</tr>
<tr>
<td>Track gauge</td>
<td>1,435 mm</td>
</tr>
<tr>
<td>Maximum speed</td>
<td>160 km/h</td>
</tr>
<tr>
<td>Traction power</td>
<td>Up to 2,600 kW</td>
</tr>
<tr>
<td>Starting acceleration</td>
<td>Up to 0.96 m/s²</td>
</tr>
<tr>
<td>Power supply</td>
<td>15 kV AC</td>
</tr>
<tr>
<td>Length (over coupling)</td>
<td>69,860 mm</td>
</tr>
<tr>
<td>Entrance height</td>
<td>610 mm</td>
</tr>
<tr>
<td>Entrance areas</td>
<td>3 on each side of train</td>
</tr>
<tr>
<td>Passenger capacity</td>
<td>181 seats</td>
</tr>
<tr>
<td>Crashworthiness</td>
<td>TSI- and EN 15227-compliant</td>
</tr>
<tr>
<td>Fire protection</td>
<td>According to EN 45545</td>
</tr>
</tbody>
</table>

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**Project details**

- Passenger area with a modern, forward-looking design
- Generous seat spacing
- CO₂-controlled air conditioning system
- Multifunctional multipurpose areas with sufficient space for up to 15 bicycles
- Large displays for passenger information
- Jacobs and standard bogies with inside bearings from the SF7500 family
- Ramp-free access to the universal WC
- All entrances have a sliding step

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**Further highlights**

- Hygiene package: touchless faucets and air hand dryers + soap and hand sanitizer dispensers
- Inductive cellphone charging at tables with face-to-face seating
- Optimized cellular reception for passengers, thanks to a window coating patented by Siemens
- Charging stations for e-bikes/pedelecs
- Defibrillator in intermediate car
- Premium first-class area with leather seats
- Designated family area in the intermediate car
- Innovative lighting system

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